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SHARP 21K-FH1RU OPERATION MANUAL

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SHARP®

COLOUR TELEVISION

21K-FH1RU

OPERATION MANUAL

Please read this operation manual carefully before using the colour television.

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MADE IN MALAYSIA
TINS-C657WJZZ
06P09-MSF

E1 SAFETY PRECAUTIONS

Damage
Turn off the power and unplug the power cord from the wall outlet immediately if the TV set begins to make any unusual noises or gives off smoke or an unusual smell. Then call your dealer for service.

Servicing
To reduce the risk of electric shock, do not remove the back of the cabinet. This TV set contains dangerous voltage.

Unstable surface and shocks
Do not place this TV set on an unstable cart, stand, shelf, or table. The TV set may fall, causing serious injury to a child or adult, and serious damage to the set. Sharp recommends securing the TV set to a stable surface or wall to prevent the set from falling due to sudden shocks or impact.

Power-cord protection
To prevent electrical shock, do not subject the AC power cord to damage by bending or twisting it, or by placing heavy items on top of it and do not place the AC power cord under the TV set. If the AC power cord becomes damaged, unplug it from the wall outlet immediately and call your dealer for service.

Moisture
To prevent electrical shock, do not use the TV set in an excessively damp place.

Water
To prevent fire or electrical shock, do not place the TV set near a bathroom, swimming pool or other area where it may become wet.

Liquid entry
Do not place a flower vase or anything else containing liquid on the TV set, as liquid spilt on the TV set can cause electrical shock or failure.

Object entry
Never insert or drop any metallic or inflammable objects into the ventilation openings of the TV set, as this can cause fire, electrical shock, or electrical failure.

TV Set position
Do place the TV set onto an even stand, table or rack which size is bigger than the TV set.
If the TV set is put onto a smaller size or uneven stand, table or rack may cause the TV cabinet to distort.
Do not put or insert anything between TV set and the stand, table or rack.

Uneven surface and excessive force
Television equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

Ventilation
Do not place this TV set in a confined area, such as on a bookshelf or in a built-in case. Leave adequate space behind the TV for proper ventilation.

Fire prevention
To prevent fire, never place any type of candle or naked flames on the top or near the TV set.

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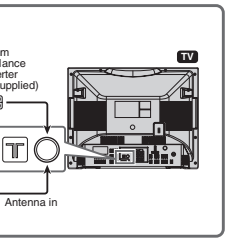
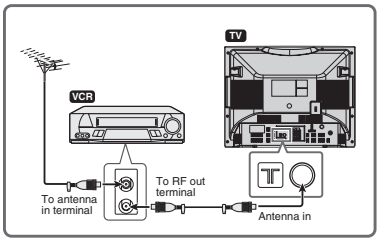
TENNA CONNECTION

an antenna



na uses a 75-ohm coaxial
DIN45325 plug (IEC 169-2),
a jack at the rear of the set.

Connecting to an antenna via a VCR



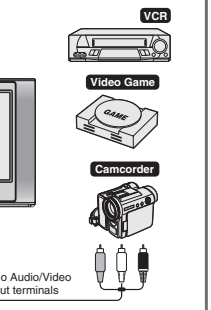
If your outdoor antenna uses a 300-ohm twin-lead flat feeder, connect a 300-ohm to 75-ohm impedance converter and plug it into the antenna jack at the rear of the set.

NNECTING TO OTHER EQUIPMENTS

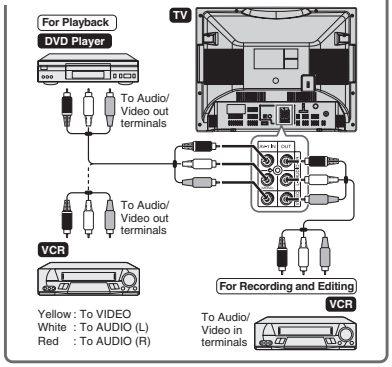
o video equipment

m a video disc player, VCR or other video equipment by connecting them to he Audio/Video in terminals.

erminals usage



Example of rear terminals usage

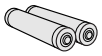


ural audio, connect the external source to the audio input left terminal on the front or rear of the r the same sound from both speakers.
required to connect the TV set with video equipment may differ from those shown in the above ation manual of your video equipment for connection details.
nd editing connections are for intended solely personal use and not for the illegal copying of otected by copyright laws.

E4 ACCESSORIES

The following accessories are included with this television.

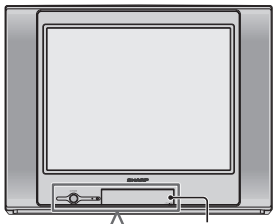
Remote Control


Size-AA batteries

Operation manual

E5 PART NAMES

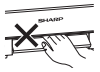
TV set


Door

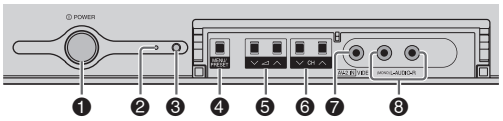
To open the door
Using the projection located under the "△PULL-OPEN" indication, pull and lift the door open.

To close the door
Using the projection, lower the door until closed.

Caution:
- When opening or closing the door, do not insert your fingers into the gap between the door and front panel. This may result in an injury.



Bottom



❶ (POWER) ⏻ **POWER switch**
Turns on and off the main power.

❷ **Power indicator**
Power can be turned on by the remote control when the indicator is dimly lit.

❸ **Infrared sensor window**
Receives the infrared wave from the remote control.

❹ (MENU/PRESET) **MENU/PRESET button**
Tunes the channels.
Used for MENU setup.

❺ (◿△) / (◿▽) **Volume up/down buttons**
Adjusts the volume.
Makes adjustments in PRESET.

❻ (CH △) / (CH ▽) **Channel up/down buttons**
Selects the channels.
Tunes or sets the channels.

❼ **Video input terminal (AV-2 IN)**
Connects to a camcorder, video game, etc.

❽ **Audio input terminals (AV-2 IN)**
Connects to a camcorder, video game, etc.

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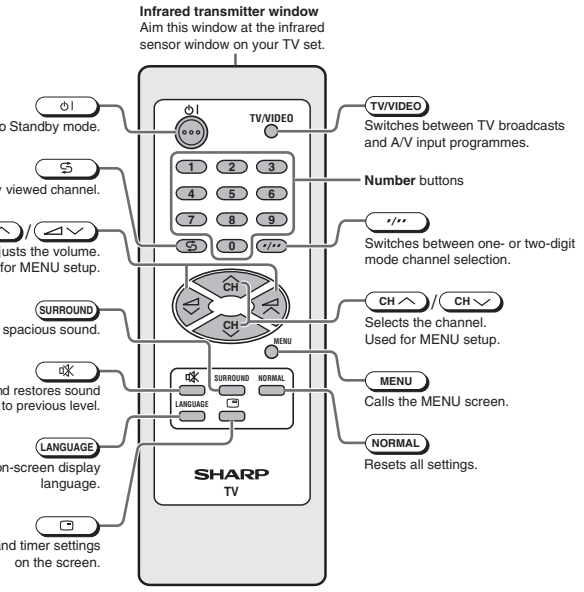
RT NAMES (Continued)

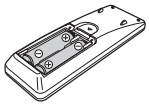
trol



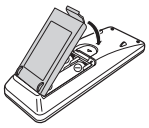
tteries in the remote control unit

mbnail, pull
o open the

b Insert two batteries (size AA).



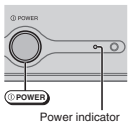
c Replace the battery cover.



E6 BASIC OPERATION

Turn on the power

[TV Set (Bottom)]



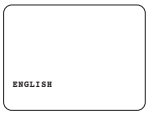
- When the power indicator is off, press POWER.
- When the power indicator lights up dimly, press ⏻ on the remote control. The power indicator changes to bright and a picture appears.

On-screen display language selection

Remote Control

- Press LANGUAGE to select desired language.
- Pressing LANGUAGE changes the language as shown below.

ENGLISH ⟷ РУССКИЙ

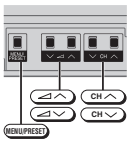


TV set

- Press MENU/PRESET for more than two seconds, the language select mode appears.
- Press CH / CH to select desired language.
- Pressing MENU/PRESET changes the screen as shown below.

Language ⟶ AUTO ⟶ MANUAL ⟶ Normal screen

[Behind the door]



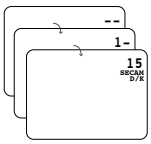
Channel selection

1 Using CH / CH

- Press CH and channels change as shown below.
  1 → 2 → ... → 98 → 99 → AV1 → AV2 → 0 → 1 → 2 ...
- Press CH and channels change as shown below.
  1 → 0 → AV2 → AV1 → 99 → 98 → ... → 2 → 1 → 0 ...

2 With the number buttons (on remote control)

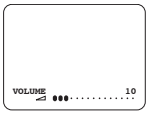
- To select a one-digit channel, such as 5, press 5. If "5-" is indicated, press -/-- to select one-digit input, and then press 5 again.
- To select a two-digit channel, such as 15, press -/-- to select the two-digit input. Press 1, and then press 5.

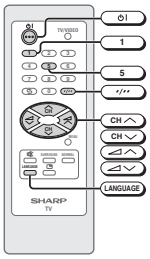


Adjusting volume

1 Adjust volume using ◿ / ◿.

- The volume bar disappears approximately three seconds after the volume has been adjusted.





NOTE

- When the power indicator lights up dimly, either CH / CH on the TV can be pressed to turn on the power.
- Channels that have been skipped cannot be selected by CH / CH.
- The AV1, AV2 input channels cannot be selected using CH / CH on the remote control. Use TV/VIDEO to select these channels.

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ESETTING CHANNELS

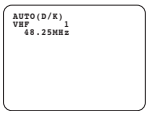
el tuning
es in and presets receivable TV stations.

for more than two seconds.

gain to display AUTO mode screen.

changes the screen as shown below.

O ⟶ MANUAL ⟶ Normal screen

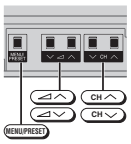


' ( ) on TV set.

ons in your area that can be received by automatically preset between channels 1

ows whatever is on channel 1 when auto is finished.

[Behind the door]



nnel tuning
hannel tuning to a desired TV station.

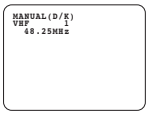
for more than two seconds.

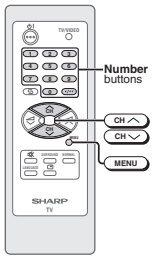
twice to display MANUAL mode

changes the screen as shown below.

TO ⟶ MANUAL ⟶ Normal screen

( ) or number buttons to l position.





' ( ) on TV set to locate channel you wish to preset to current on.

ted and when a TV signal is received during the search, the search stops.

3 and 4 above, to preset channel positions for other broadcasts.

again to display normal screen.

not have been set correctly, if noise can be heard or if there is no sound. In such case, adjust using the (MENU) on the remote control.
all receivable channels including those which may be very weak and not clearly visible. To nels designated for the local viewing region, use MANUAL PRESET.

E8 SETTING AND ADJUSTMENT

Channel setting
Enables individual channel setting.

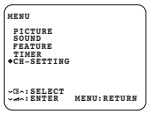
1 Press (MENU) to call MENU screen.

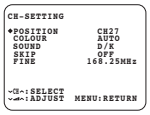
2 Press (CH) / (CH) to select "CH-SETTING".

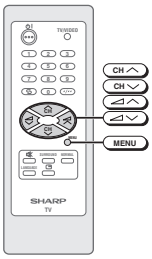
3 Press ( ) / ( ) to display CH-SETTING menu.

4 Press (CH) / (CH) to select desired setting.

5 Each time you press ( ) / ( ), setting for individual items changes as follows:



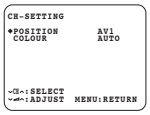




- **POSITION**
  The channel position changes to the higher or lower number.
- **COLOUR**
  ↱ AUTO ⟷ PAL ⟷ SECAM ⟷ N443 ↰
- **SOUND**
  ↱ B/G ⟷ I ⟷ D/K ↰
- **SKIP**
  ON ⟷ OFF
  Channel numbers with a "✚" mark on the left are set to SKIP. To turn off SKIP, press the number buttons to select the desired channel and then set "SKIP" to "OFF".
- **FINE**
  The frequency changes to allow fine tuning.

6 Press (MENU) until normal screen appears.

- When you select AV1, AV2 for the channel position, the CH-SETTING menu changes as shown on the right and the colour mode changes in the following order:
  ↱ AUTO ⟷ PAL ⟷ SECAM ⟷ N443 ⟷ N358 ↰



NOTE

- Switching COLOUR system:
  Set the system to "AUTO" for normal TV reception. The AUTO mode automatically detects the receiving signal system and changes the reception system of the TV set. When the picture is not stable, switching to an appropriate system may improve the picture quality.
- When using FINE, the channel number changes from green to yellow.

TTING AND ADJUSTMENT (Continued)

stment

o call MENU screen.
/ CH) to select “PICTURE”.
) to display PICTURE menu.
CH) to select adjustment items.
) /) .
imately three seconds to return to PICTURE menu.
4 and 5 above to adjust other items.
until normal screen appears.
the adjustment items shown in the PICTURE menu and how they
) /).

	Press)
ase contrast	To increase contrast
colour intensity	For more colour intensity
brightness	For more brightness
tint toward red	To move tint toward green
sharpness	For more sharpness
reddish nd	To more bluish background

cted and adjusted when receiving NTSC broadcasts. (AV only)
be adjusted on PICTURE menu.

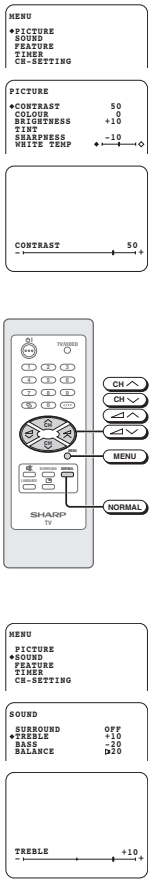
stment

o call MENU screen.
/ CH) to select “SOUND”.
) to display SOUND menu.
CH) to select adjustment items.
) /) .
imately three seconds to return to SOUND menu.
4 and 5 above to adjust other items.
until normal screen appears.
the adjustment items shown in the SOUND menu and how they
) /).

	Press)
ON ❶ ⟷ ON ❷ ⟷ OFF	
ase treble	To increase treble
ase bass	To increase bass
balance ft	To shift balance toward right

set to “ON❶” or “ON❷”, BALANCE cannot be selected.
d and not in centre (0), SURROUND cannot be selected.

a PICTURE/SOUND selection is displayed, only the selected mode is reset to the standard
n.
a PICTURE/SOUND menu screen is displayed will reset all the item of PICTURE/SOUND
factory-setting) position.



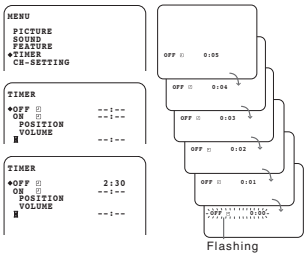
E9 TIMER SETTING

Off timer

Automatically turns power off after a set length of time has passed.

❶ Press MENU to call MENU screen.
❷ Press CH) / CH) to select “TIMER”.
❸ Press) /) to display TIMER menu.
❹ Press CH) / CH) to select “OFF ⏲”.
❺ Press) /) to set time for TV to turn off.
- Maximum time that can be preset is 12 hours and 50 minutes. Timer start to count down after setting.

❻ Press MENU until normal screen appears.
- Five minutes before the preset length of time expires, the remaining time appears on the screen.
- A flashing display of the remaining time appears during the last few seconds. When the preset length of time has passed, the TV set enters the Standby mode.

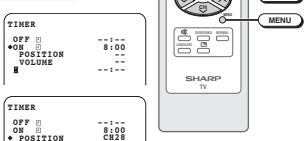


On timer

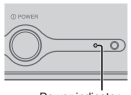
Automatically turns power on after a set length of time has passed.

❶ Repeat step 1 to 3 of OFF TIMER.
❷ Press CH) / CH) to select “ON ⏲”.
❸ Press) /) to set time for TV to turn on.
- Maximum time that can be preset is 12 hours and 50 minutes. Timer start to count down after setting.

❹ Press CH) / CH) to select “POSITION”.
❺ Press) /) to set the channel.
❻ Repeat step 4 to 5 above to select and set the “VOLUME”.
❼ Press MENU until normal screen appears.
❽ Press ⏻ to put TV set into Standby mode.
- Power indicator will flash to indicate On Timer is set.
- When the preset length of time setting has passed, the power turns on and a picture appears on the screen.
- The ON TIMER speaker volume gradually increases from zero to preset volume.



[TV Set (Bottom)]



Power indicator (Flashing)

NOTE
- The Off timer is cancelled if the power is turned off or set to the Standby mode using ⏻ on the remote control or POWER on the TV set, or if the power is otherwise interrupted.
- The On Timer is cancelled if the power is turned off using POWER.
- If the TV set is turned on by the On Timer, then the TV set will be automatically turned off in two hours if no buttons are pressed on the TV set or remote control.

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ER SETTING (Continued)

n-screen timer

en a preset length of time has passed by displaying a countdown timer on useful for timer cooking while you watch TV.

to 3 of OFF TIMER.

(CH) to select "⧖".

( ) to set time.

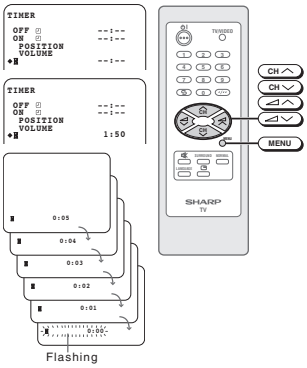
that can be preset is 12 hours and 50

t right shows that the Reminder will be one hour and 50 minutes.

until normal screen appears.

efore the preset length of time expires (in fter one hour and 45 minutes) and each er, the remaining time appears on the ral seconds.

et length of time has passed, "⧖ 0:00"



ATURES

s the screen blue if a broadcast signal is not received.

o call MENU screen.

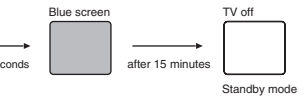
(CH) to select "FEATURE".

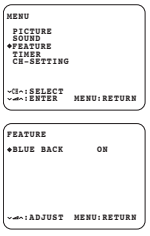
( ) to display FEATURE menu.

( ) to select "BLUE BACK" to "ON" or "OFF".

until normal screen appears.

et to "ON".





rks in the Standby mode. Power is automatically turned on five minutes before the preset length V set automatically returns to the Standby mode approximately 1 minute after the timer expired ed on the TV set or remote control.

elled if (POWER) on the TV set is pressed or if the power is otherwise interrupted.
weak signals and too much noise may activate BLUE BACK, despite the presence of a ontinue watching TV under these conditions, switch "BLUE BACK" to "OFF".
the OFF TIMER setting has priority over BLUE BACK.

E11 USEFUL FEATURES

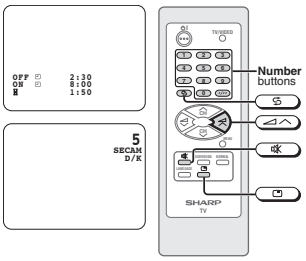
Channel / Timer display

Displays the current channel number, the timer, and other settings on the screen.

1 Press ( ).
- The time remaining on the Off timer, On timer, and Reminder appears on the screen.
- When no timer is set, the channel number, colour and sound system appear on the screen.
- Press ( ) again to clear these current settings display on the screen.

2 Press ( ) again, the channel number, colour and sound system appear on the screen.

3 Press ( ) once again. The display disappears.

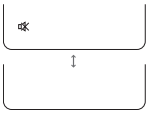


Mute

Silences the sound.

1 Press ( ).
- Press ( ), "🔇" appears on the screen, and the sound is silenced.

2 Press ( ), the volume returns to its previous level.
- Mute will be cancelled if the ( ) is pressed at any time.

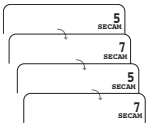


Channel recall

Switches back to the channel you were watching just before the current channel.

Press ( ).
- The channel previously viewed returns to the screen.

Example:
After switching from channel 5 to channel 7, ( ) is pressed, the channel will change to channel 5. Press ( ) again to return to channel 7.

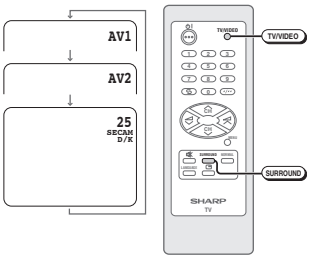


EFUL FEATURES (Continued)

election

TV broadcasts and AV input programmes.

s the (TV/VIDEO), the input switches between
ogramme.

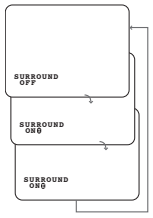


ound

l surround sound from the TV's speakers.

**ess (SURROUND), the mode changes
and OFF.**

rmal sound.
s mode during stereo signal reception
pacious sound, making the most of the
rformance.
s mode during monaural signal reception
ural sound that is similar to stereophonic



working if BALANCE in the SOUND menu is adjusted and not in centre (0).
d adjustment.

E12 TROUBLESHOOTING

The following problems do not always indicate a hardware failure. Therefore, please use the troubleshooting guide below before calling for repair service.
If, after following the guide none of the remedies work, unplug the TV set and call for service.

Quick Service Check List / Problems	Remote control does not work.	Bars on screen.	Picture distorted.	Picture rolls vertically.	No colour.	Poor reception on some channels.	Picture weak.	Picture lines or streaks.	Picture ghosting.	Picture blurred.	Sound OK, picture poor.	Picture OK, sound poor.	No picture or sound.
Possible Causes/Remedies													
Try a new channel to check for possible station trouble.			●	●	●	●	●	●	●	●	●	●	●
TV not plugged in. Outlet power OFF.	●												●
⏻ **POWER** switch of TV not ON.	●												●
Antenna not connected to terminal at the back of the TV set.					●	●	●		●		●		●
If outside antenna is used, check for broken wires.		●	●	●	●	●	●	●	●	●	●		●
Check for local interference.		●		●		●		●	●		●	●	
Turn OFF using the ⏻ **POWER** switch, then turn ON again after a minute.	●												●
Adjust COLOUR control.					●		●				●		
Check batteries in the remote control.	●												
Try fine tuning to correct.			●		●		●			●	●		
Contrast setting in picture mode might be all the way to the minus side. Press the **NORMAL** button on the remote control to correct.											●		●
Increase the volume.												●	●

This unit is equipped with a microprocessor. Its performance could be adversely affected by external electrical noise or interference. If this should happen, unplug the unit and plug it in again after a few minutes.

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ECIFICATIONS

	21K-FH1RU	
	World multi 18 system	
	PAL-I PAL-B/G PAL-D/K	SECAM-B/G SECAM D/K, K1
	NTSC 4.43/5.5 MHz/60 Hz NTSC 4.43/6.0 MHz/60 Hz NTSC 4.43/6.5 MHz/60 Hz NTSC 4.43/5.5 MHz/50 Hz NTSC 4.43/6.0 MHz/50 Hz NTSC 4.43/6.5 MHz/50 Hz SECAM-I (6.0 MHz)	
minals)	SECAM-L (French SECAM) PAL 60 Hz NTSC 3.58 MHz	
layback nals)	PAL 5.5 MHz/60 Hz PAL 6.0 MHz/60 Hz PAL 6.5 MHz/60 Hz	
VHF	E2–E12 ch	
UHF	E21–E69 ch	
VHF	C1–C12 ch, R1–R12 ch	
UHF	C13–C57 ch, R21–R69 ch	
VHF	B–J ch	
UHF	21–69 ch (Hong Kong)	
	S1–S20 ch, S21–S41 ch (Hyper)	
	48.25 MHz – 863.25 MHz	
	100-Channel Electronic Tuner with Full Auto Tuning System	
	21-Inch Flat CRT	
	Audio/video input × 2 (front × 1, rear × 1), Audio/video output × 1 (rear)	
	3 W (RMS) × 2, total 6 W (RMS)	
	AC 220 – 240V, 50/60 Hz	
	88 W	
	605 (W) × 468 (H) × 487.5 (D) mm	
	22.5 kg (Approx.)	

ons are subject to change without notice.
se receiving systems, encompassing all currently available technology, include those with
eotape and laserdisc hardware and software.

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